

In the Claims:

Please amend Claims 1-6, 8, 9, 11, 13, and 15 as indicated below. The status of all pending claims is as follows:

1. (Currently Amended) A liquid crystal display comprising:

a pair of substrates provided opposite to each other ~~and having electrodes;~~ with one of said substrates having a pixel electrode and the other of said substrates having a common electrode;

a liquid crystal sealed between the pair of substrates; and

a pixel region including at least one ~~or a plurality of~~ low effective voltage ~~areas-~~ area in which an effective voltage applied by the pixel and the common electrodes to the liquid crystal is lower than a voltage applied between the pixel and the common electrodes; electrodes at another area, the at least one low effective voltage ~~areas-~~ area occupying part of the region in a predetermined area ratio, the pixel region having a threshold voltage that is different between the ~~one or plurality of~~ at least one low effective voltage ~~areas-~~ area and said another area- area, and

the pixel region also including a color filter layer having one color formed on at least one of the pair of substrates, wherein the effective voltage in the pixel region is different from that in another pixel region including a color filter layer having another color.

2. (Currently Amended) A liquid crystal display according to claim 1,

wherein:

~~the pixel region has a plurality of color filter layers which are formed at least either~~  
~~of the pair of substrates and which have center transmission wavelengths  $\lambda_k$  ( $k = 1, 2, \dots, N$ ;~~  
 $N > 2$ ); and

a cell thickness  $d_k$  of each pixel region having at least two kinds among the  
color filter layers satisfies a relationship expressed by:

$$|\Delta n(\lambda_i) \cdot d_i / \lambda_i - \Delta n(\lambda_j) \cdot d_j / \lambda_j| < 0.2$$

$$(i, j = 1, 2, \dots, N; i \neq j)$$

where  $\Delta n(\lambda)$  represents birefringence of liquid crystal molecules against a wavelength  $\lambda$ .

3. (Currently Amended) A liquid crystal display according to claim 1,

wherein:

~~the pixel region has a plurality of color filter layers which are formed at least~~  
~~either of the pair of substrates and which have center transmission wavelengths  $\lambda_k$  ( $k = 1, 2,$~~   
 $\dots, N$ ;  $N > 2$ ); and

the product of the cell thickness  $d_k$  of each pixel region having the color filter  
layer whose center transmission wavelength  $\lambda_k$  is closest to 545 nm and birefringence  $\Delta n(\lambda_k)$   
of liquid crystal molecules against the center transmission wavelength  $\lambda_k$  satisfies a  
relationship expressed by:

$$250 \text{ nm} < \Delta n(\lambda_k) \cdot d_k < 450 \text{ nm}.$$

4. (Currently Amended) A liquid crystal display according to claim 1,

wherein:

~~the pixel region has a plurality of color filter layers which are formed at least~~  
~~either of the pair of substrates and which~~ have center transmission wavelengths  $\lambda_k$  ( $k = 1,$   
2, ..., N;  $N > 2$ );

a cell thickness  $d$  of the pixel region is substantially constant regardless of the  
center transmission wavelengths  $\lambda_k$ ;

effective retardation  $\Delta n(\lambda_k, \theta_k)$  of the liquid crystal layer at the time of  
application of a data voltage  $V_k$  that imparts a tilt angle  $\theta_k$  to liquid crystal molecules  
satisfies a relationship expressed by:

$$|\Delta n(\lambda_i, \theta_i) \cdot d / \lambda_i - \Delta n(\lambda_j, \theta_j) \cdot d / \lambda_j| < 0.2$$

$$(i, j = 1, 2, \dots, N; i \neq j)$$

between pixel regions each having two kinds among the color filter layers; and

chromaticity  $(x_0, y_0)$  of an incident light source which has been transmitted or  
reflected by the liquid crystal display panel and chromaticity  $(x_1, y_1)$  of display of white  
satisfy a relationship expressed by:

$$((x_0 - x_1)^2 + (y_0 - y_1)^2)^{1/2} < 0.1$$

when no polarizer is provided.

5. (Currently Amended) A liquid crystal display according to claim 1,

wherein:

~~the pixel region has a plurality of color filter layers which are formed at least~~  
~~either of the pair of substrates and which~~ have center transmission wavelengths  $\lambda_k$  ( $k = 1,$   
2, ...,  $N$ ;  $N > 2$ );

a cell thickness  $d$  of the pixel region is substantially constant regardless of the  
center transmission wavelengths  $\lambda_k$ ; and

the product of the cell thickness  $d$  of the pixel region having the color filter  
layer with the shortest center transmission wavelength  $\lambda_k$  and birefringence  $\Delta n(\lambda_k)$  of liquid  
crystal molecules against the center transmission wavelength  $\lambda_k$  satisfies a relationship  
expressed by:

$$250 \text{ nm} < \Delta n(\lambda_k) \cdot d < 450 \text{ nm}.$$

6. (Currently Amended) A liquid crystal display ~~according to claim 1,~~

comprising:

a pair of substrates provided opposite to each other with one of said substrates  
having a pixel electrode and the other of said substrates having a common electrode;

a liquid crystal sealed between the pair of substrates; and

a pixel region including at least one low effective voltage area in which an  
effective voltage applied by the pixel and the common electrodes to the liquid crystal is lower  
than a voltage applied between the pixel and the common electrodes at another area, the at

least one low effective voltage area occupying part of the region in a predetermined area ratio, the pixel region having a threshold voltage that is different between the at least one low effective voltage area and said another area;

wherein the area ratio is in the range from 0.5 to 0.9.

7. (Original) A liquid crystal display according to claim 1, wherein:  
the threshold voltage of the low effective voltage area is higher than the threshold voltage of the other area by a predetermined voltage difference; and  
the voltage difference is in the range from 0.1 V to 2.0 V.

8. (Currently Amended) A liquid crystal display ~~according to claim 1,~~  
comprising:  
a pair of substrates provided opposite to each other with one of said substrates having a pixel electrode and the other of said substrates having a common electrode;  
a liquid crystal sealed between the pair of substrates; and  
a pixel region including at least one low effective voltage area in which an effective voltage applied by the pixel and the common electrodes to the liquid crystal is lower than a voltage applied between the pixel and the common electrodes at another area, the at least one low effective voltage area occupying part of the region in a predetermined area ratio, the pixel region having a threshold voltage that is different between the at least one low effective voltage area and said another area;

wherein the area ratio varies depending on the center transmission wavelength  $\lambda$  of ~~the color~~ a color filter layer that the pixel region has.

9. (Currently Amended) A liquid crystal display according to claim 1, wherein the low effective voltage area has a dielectric layer formed with a predetermined thickness on at least ~~either~~ one of the electrodes.

10. (Original) A liquid crystal display according to claim 9, wherein the dielectric layer is formed like stripes having a predetermined layer width and gap width.

11. (Currently Amended) A liquid crystal display according to claim 1, wherein the low effective voltage area has an electrode portion with blanks, formed on at least ~~either~~ one of the electrodes.

12. (Original) A liquid crystal display according to claim 11, wherein the electrode portion with blanks is formed like stripes having a predetermined electrode width and gap width.

13. (Currently Amended) A liquid crystal display ~~according to claim 1,~~  
comrpsing:  
a pair of substrates provided opposite to each other with one of said substrates  
having a pixel electrode and the other of said substrates having a common electrode;  
a liquid crystal sealed between the pair of substrates; and  
a pixel region including at least one low effective voltage area in which an  
effective voltage applied by the pixel and the common electrodes to the liquid crystal is lower  
than a voltage applied between the pixel and the common electrodes at another area, the at  
least one low effective voltage area occupying part of the region in a predetermined area  
ratio, the pixel region having a threshold voltage that is different between the at least one low  
effective voltage area and said another area;  
wherein the low effective voltage area is provided in the vicinity of an end of  
the pixel region.

14. (Original) A liquid crystal display according to claim 1, wherein the  
liquid crystal is a nematic liquid crystal having negative dielectric constant anisotropy whose  
initial alignment is vertical to a surface of the substrates.

15. (Currently Amended) A liquid crystal display according to claim  
14, further comprising an alignment regulating structure for regulating the alignment of the

liquid crystal provided on at least ~~either~~ one of the substrates, wherein the pixel region has a plurality of alignment regions in which the liquid crystal is aligned in different directions.

16-26. (Cancelled)